

RUBBER BALLOON VOLUME INDICATOR APPARATUS VERIFICATION PROCEDURE #55

April 28,2002

Equipment Checked: **Rubber Balloon Volume Indicator Apparatus (ASTM D2167)**

Purpose:

This method provides instructions for checking the condition and critical dimensions of the rubber balloon volume indicator apparatus.

Inspection Equipment Required:

1. Tape measure.
2. Calibrated molds.

Tolerance:

This equipment has a base plate dimensional tolerance of at least twice the length and width of the diameter of the sample hole. Eg. 4 inch diameter hole needs at least an 8"X 8" rigid metal base plate. The equipment shall meet a volumetric tolerance of being within 1% of a standard known volume.

Procedure:

Calibrate according to instructions of D 2167, Annex. Summary follows.

1. Measure the base plate length, width, and center hole diameter.
2. Check the apparatus for working condition and leaks.
3. Check the rubber balloon for working condition and leaks.
4. Run tests on three different calibrated molds of known volumes.
5. Adjust pressure to give volumes within 1% of the calibrated molds.

EQUIPMENT CALIBRATION RECORD

Calibration Procedure No. 55 Rubber Balloon Volume Measure Apparatus (ASTM D2167)

Date:	Calibrated by:
Previous Calibration Date:	Next Due:
Apparatus ID:	
Frequency: 12 months	
Action Recommended: Repair _____ Replace _____ None _____ Other _____	
Calibration Equipment	Serial Number
Tape measure	
Calibration Molds	
Recommended Gauge Pressure:	

Mold Depth (inches)	Mold Measured Volume (cubic feet)	Initial Reading (cubic feet)	Final Reading (cubic feet)	Volume From Readings (cubic feet)	Pressure at Target Volume (PSI)	1% of Mold Volume
4						
5						
6						